

1 **WHAT IS CLAIMED IS:**

2 1. An adjustable handle assembly for a person mobility vehicle having a
3 front chassis, and the adjustable handle assembly comprising:

4 a mounting bracket adapted to be attached to the front chassis;

5 an adjusting device including a primary pivot post and a secondary pivot
6 post that have respectively a top end and a bottom end, and both the bottom ends
7 pivotally attached to the mounting bracket;

8 a handle mounted at the top end of the primary pivot post; and

9 a mechanical lock interconnecting the primary and secondary pivot
10 posts and comprising

11 a stationary bracket mounted on the primary pivot post;

12 a bushing bracket pivotally mounted in the stationary bracket;

13 a connecting tube attached to the bushing bracket, being hollow
14 for slidably receiving the top end of the secondary pivot post and having a top
15 end and at least one wedge hole;

16 a locking wedge movably mounted in each one of the at least
17 one wedge hole and having an inclined surface exposed out of the respective one
18 of the at least one wedge hole;

19 a sliding block slidably mounted on the connecting tube over the
20 at least one wedge hole and having a bottom annular bevel slidably abutting the
21 inclined surface of the locking wedge;

22 a basing member mounted between the bushing bracket and the
23 sliding block to provide a restitution force to return the sliding block from an
24 unlocked position to a locked position; and

1 a lever pivotally mounted on the primary pivot post and coupled
2 to the sliding block to move the sliding block toward the stationary bracket to the
3 unlocked position;

4 wherein the sliding block is forced by the basing member thereby the
5 bottom annular bevel presses the inclined surface of the lock wedge to clamp the
6 secondary pivot post when the sliding block is in the locked position and is
7 moved toward the stationary bracket by pivoting the lever thereby the bottom
8 annular bevel separates from the inclined surfaces of the locking wedge when the
9 sliding block is in the unlocked position.

10 2. The adjustable handle assembly as claimed in claim 1, wherein
11 the stationary bracket comprises two mounting plates that securely
12 attached in parallel to the primary pivot post opposite to each other, each
13 mounting plate has a through hole aligned with each other, the bushing bracket is
14 mounted between the mounting plates and has two pin holes that are aligned
15 respectively with the through holes in the mounting plates; and
16 the mechanical lock further has two attachment pins inserted
17 respectively into each pair of aligned through holes and pin holes to pivotally
18 hold the bushing bracket in place.

19 3. The adjustable handle assembly as claimed in claim 2, wherein the
20 bushing bracket further has a bottom threaded hole and a longitudinal passage
21 that communicates with the bottom treaded hole; and

22 the top end of the connecting tube has an exterior thread to screw into the
23 bottom threaded hole;

24 wherein the top end of the secondary pivot post passes through the

1 connecting tube, the longitudinal passage of the bushing bracket and extends out
2 of the longitudinal passage.

3 4. The adjustable handle assembly as claimed in claim 1, wherein
4 the sliding block further has two outer elongated sliding recesses; and
5 the lever is U-shaped and has two coupling arms pivotally mounted on
6 the primary pivot post, each coupling arm has a pair of sliding lobes that are
7 slidably mounted in a respective one of the outer elongated sliding recesses of
8 the sliding block.

9 5. The adjustable handle assembly as claimed in claim 2, wherein
10 the sliding block further has two outer elongated sliding recesses; and
11 the lever is U-shaped and has two coupling arms pivotally mounted on
12 the primary pivot post, each coupling arm has a pair of sliding lobes that are
13 slidably mounted in a respective one of the outer elongated sliding recesses of
14 the sliding block.

15 6. The adjustable handle assembly as claimed in claim 3, wherein
16 the sliding block further has two outer elongated sliding recesses; and
17 the lever is U-shaped and has two coupling arms pivotally mounted on
18 the primary pivot post, each coupling arm has a pair of sliding lobes that are
19 slidably mounted in a respective one of the outer elongated sliding recesses of
20 the sliding block.

21 7. The adjustable handle assembly as claimed in claim 6, wherein the
22 mounting bracket comprises a mounting base adapted to be mounted on the front
23 chassis and two perpendicular wings mounted perpendicularly on the mounting
24 base to mounted pivotally the both bottom ends of the secondary pivot post.